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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,687	03/30/2004		Eric G. Mundt	GW-0063-US	4034
23549	7590	05/23/2006		EXAMINER	
THE GLEA			RACHUBA, MAURINA T		
P O BOX 229				ART UNIT	PAPER NUMBER
ROCHESTE	R, NY	146922970	3723		

DATE MAILED: 05/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			E				
	Application No.	Applicant(s)					
	10/812,687	MUNDT, ERIC G.					
Office Action Summary	Examiner	Art Unit					
	M Rachuba	3723					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	h the correspondence address	5				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three morths after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC. 136(a). In no event, however, may a rep will apply and will expire SIX (6) MONT e, cause the application to become ABA	ATION. ply be timely filed  HS from the mailing date of this communications (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>06 №</u>	<u> March 2006</u> .						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This							
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4) ☐ Claim(s) 1,3,4,6-15,17 and 18 is/are pending if 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1,3,4,6-15,17 and 18 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examine	or.						
10) ☐ The drawing(s) filed on <u>09 June 2005</u> is/are: a		ted to by the Examiner.					
Applicant may not request that any objection to the		•					
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s	) is objected to. See 37 CFR 1.1	I21(d).				
11) The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-15	52.				
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Burea</li> <li>* See the attached detailed Office action for a list</li> </ul>	ts have been received. ts have been received in Ap prity documents have been re u (PCT Rule 17.2(a)).	plication No eceived in this National Stage	e				
Attachment(s)	<b></b>	(DTO 442)					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>		/Mail Date ormal Patent Application (PTO-152)					

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### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments, see page 10, 3<sup>rd</sup> and 4<sup>th</sup> paragraphs, filed 06 March 2006, with respect to the rejection under 35 USC 102(b) have been fully considered and are persuasive. The rejection has been withdrawn.

## Claim Objections

2. Claim 7 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 7 repeats the limitations of claim 1 as amended.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3, 4, 6-8, 13-15, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0305616 in view of Eckhardt et al, 4739586. '616 discloses the claimed invention, including a plurality of nozzles connected to a coolant header that is positionable with the nozzles. '616 does not disclose that repositioning of the nozzles is synchronized to movement of the tool along at least one axis where the defined amount of movement of the tool yields a predetermined amount of repositioning

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movement of the nozzles. '616 teaches that the contact zone between the tool and work piece is changed by movement of the work piece, and that the nozzles are repositioned relative to the movement by the work piece. '586, in a similar device, teaches that it is old and well known to connect the nozzles to the tool, so that movement of the tool between contact zones causes repositioning of the nozzles, using a servomotor. It would have been obvious to one of ordinary skill in the art to have provided '616 with the repositioning of the nozzles synchronized to the tool movement, rather than the work piece movement, as taught by '586, column 2, lines 11-16, that by adjusting the nozzle holder in dependence on the movement of the grinding point, the coolant jet is continuously and accurately directed into the groove so that even with a relatively small amount of coolant a satisfactory cooling is obtained, the movement of the grinding point defined as movement of the tool relative to the work piece.

5. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0305616 in view of Eckhardt et al, 4739586 as applied to claim1 above, and further in view of Mason 1924162. '616 teaches using a gearing system to move the coolant head and nozzles relative to the tool. '162, in a moving device, teaches that it is old and well known to use a cable system, comprising a pair of cables attached to each end of a moving structure, the cables causing the moving structure to be reciprocated as needed during use. It would have been obvious to one of ordinary skill in the art to have provided '616 with a cable drive in place of the gear drive, as taught by '162, to allow accurate positioning and smooth controlled movement of the header, see page 2, lines 66-84.

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6. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0305616 in view of Eckhardt et al, 4739586 as applied to claim 1 above, and further in view of Kalb, 6712061. '616 discloses that the coolant head is moved by a gearing system. '061 teaches that it is old and well known in the machining arts to use a cable system communicating with and extending between a moveable device and a slide on the machine, along an arc, for effecting movement of the device relative to the work piece along an axis of motion. It would have been obvious to one of ordinary skill to have provided '061616 with the cable system taught by '061, figure 1, to accurately drive the structure, see column 3, lines 35-38.

## Response to Arguments

7. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. The examiner agrees that '586 does not disclose a coolant header as claimed, and therefore the rejection over '586 under 35 USC 102 has been with drawn. However, it is the examiner's position that '616, teaching a coolant header on a machining tool, the header driven synchronized with the work piece, as modified by '586, teaching it is old and well known to synchronize the movement of coolant nozzles with a machining tool movement, makes obvious applicant's claimed invention. Applicant's arguments regarding the use of '061 and '162 are noted. '061 is relied on to teach a cable and slide system for moving a structure along an arc. '162 is relied upon to teach a cable drive system is old and well known. The motivation is that such drives are common, and accurate for driving structures in two directions. In response to applicant's argument that '162 is nonanalogous art, it has

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been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, '162 is not from the field of applicant's endeavor, but is reasonably pertinent to the particular problem with which applicant was concerned, here, how to move the coolant head.

### Conclusion

- 8. As the new ground of rejection are based on applicant's arguments, and not on a change in the claims, this action is made non-final.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M Rachuba whose telephone number is 571-272-4493. The examiner can normally be reached on Monday-Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 571-272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M Rachuba Primary Examiner Page 6

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